1

## SEQUENCE LISTING

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<110>	Kloek, Willia Salmon	ams,	Dery			ny									
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His A	ct ggt la Gly 35														201
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	ac gga sn Gly	-		-											297

	ggc Gly													34	15
	aac Asn													39	93
	gct Ala 115													4.4	11
	tat Tyr													48	39
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	ggt Gly					-	_	_		_	-	_		 58	35
	agt Ser													63	33
	gag Glu 195													68	31
-	gcc Ala	-					_		_			-	_	72	29
	ggt Gly													77	77
	aaa Lys													82	25
	gca Ala													87	73
	aaa Lys 275													92	21
	ttt Phe													96	59

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ttg gta tac caa gaa ggg cag ata aaa gct ttg gaa gag ttg gcc aca Leu Val Tyr Gln Glu Gly Gln Ile Lys Ala Leu Glu Glu Leu Ala Thr 340 345 350	1113
aaa tgt gat gtt caa atg ttc tca tac aaa cga cta aaa tgaggatgag Lys Cys Asp Val Gln Met Phe Ser Tyr Lys Arg Leu Lys . 355 360 365	1162
atttaaatat ttttttgtgt agctgaaact gacttcaaac gagaaatgaa caatttccta aaaagcagtt agataagggt ttatttttca tttatttatt ttttaacctc atttttata tacgaataaa attaatgctc naaaaaaaaa aaaaaaaaaa aaaaa	1222 1282 1327
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		cat His			-	_					_			438
		atg Met 140												486
		cgt Arg												534
		aac Asn												582 .
		act Thr												630
		caa Gln												678
		gac Asp 220												726
	Gly	ata Ile	Glu	Glu	Thr	Gly	Ser	Tyr	Lys	Gly	Thr	Gly		774
		gaa Glu												822
		cga Arg												870
		gtt Val												918
		caa Gln 300												966

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aaa gct ttg gaa Lys Ala Leu Glu		a Thr Lys (			
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Ala Arg Glu Phe	-	Cys Met (		Val Gly Thr	
Asp His Ala Gly 35		Asp Leu I 40	Leu Leu <i>P</i>	Asp Ala Asp	Leu Val
Gly His Tur Ser				3.5	
50	55	5		Ile Tyr Val 60	
50 Val Lys Asn Gly 65	55 Val Lys Gly 70	o Asn Gly N	Val Pro I 75	Ile Tyr Val 60 Lys Val Leu	Lys Gln 80
50 Val Lys Asn Gly 65 Lys Gly Gly Thr	Val Lys Gly 70 Ala Trp Val	Asn Gly V	Val Pro I 75 Glu Asn I 90	Ile Tyr Val 60 Lys Val Leu Leu Leu Gly	Lys Gln 80 Ala Val 95
Val Lys Asn Gly 65 Lys Gly Gly Thr Val Gly Asn Phe 100	Val Lys Gly 70 Ala Trp Val 85 Cys Thr Asp	Asn Gly V Asp Gly C Leu Ala 1	Val Pro I 75 Glu Asn I 90 Ile Lys I	Ile Tyr Val 60 Lys Val Leu Leu Leu Gly Leu Ala Lys 110	Lys Gln 80 Ala Val 95 Glu Phe
Val Lys Asn Gly 65 Lys Gly Gly Thr Val Gly Asn Phe	Val Lys Gly 70 Ala Trp Val 85 Cys Thr Asp	Asn Gly V Asn Gly V Asp Gly C Leu Ala I 105 Lys Asn S	Val Pro I 75 Glu Asn I 90 Ile Lys I Ser Asn F	Leu Leu Gly Leu Ala Lys 110 Lis Tyr Gly 125	Lys Gln 80 Ala Val 95 Glu Phe Ala Cys

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Gly Leu Gly Thr Asn Pro Leu Ser Cys Cys Val Asn Ser Glu Lys Thr
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Gly Asp Ser Phe Leu Leu Asp Met Ala Thr Thr Thr Val Ala Leu Gly
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Lys Val Glu Leu Ala Asp Cys Arg Gly Lys Thr Gln Ile Pro Ser Thr
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Trp Gly Ala Asp Ser Lys Gly Asn Pro Ser Thr Asp Thr Gln Val Val
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                                            220
Leu His Gly Gly Gly Leu Leu Pro Leu Gly Gly Ile Glu Glu Thr Gly
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                                        235
Ser Tyr Lys Gly Thr Gly Leu Ser Met Met Gly Glu Leu Phe Cys Gly
                245
                                    250
Ile Leu Ala Gly Ser Ser Phe Gly Lys Asn Val Arg Leu Trp Gly Gln
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                                265
Ser His Lys Ala Ala Asp Asn Gly Gln Cys Phe Val Ala Ile Asp Gln
                            280
Glu Cys Phe Ala Pro Gly Phe Ala Pro Arg Leu Gln Gln Phe Leu Asp
                        295
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Glu Thr Arg Asn Leu Lys Pro Ile Ser Glu Glu Lys Pro Val Leu Val
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                                        315
Pro Gly Asp Pro Glu Arg Met Asn Thr Glu Tyr Ser Gln Lys Ala Gly
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Gly Leu Val Tyr Gln Glu Gly Gln Ile Lys Ala Leu Glu Glu Leu Ala
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Thr Lys Cys Asp Val Gln Met Phe Ser Tyr Lys Arg Leu Lys
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Gly His Tyr Ser His Gly Leu Asn Arg Leu His Ile Tyr Val Asp Asp
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Val Lys Asn Gly Val Lys Gly Asn Gly Val Pro Lys Val Leu Lys Gln
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Lys Gly Gly Thr Ala Trp Val Asp Gly Glu Asn Leu Leu Gly Ala Val
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Val Gly Asn Phe Cys Thr Asp Leu Ala Ile Lys Leu Ala Lys Glu Phe
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Gly Val Ala Trp Val Val Thr Lys Asn Ser Asn His Tyr Gly Ala Xaa
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Gln His Tyr Thr Lys Lys Ile Ala Asn Ala Gly Met Val Gly Met Ser
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    130
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Phe Thr Asn Thr Ser Pro Leu Met Phe Pro Cys Arg Ser Ser Glu Ile
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Gly Leu Gly Thr Asn Pro Leu Ser Cys Cys Ala Asn Ser Glu Lys Thr
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                                     170
                                                         175
Glu Asp Ser Phe Leu Leu Asp Met Ala Thr Thr Thr Val Ala Leu Gly
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Lys Val Glu Leu Ala Asn Cys Arg Gly Lys Thr Gln Ile Pro Ser Ala
                             200
Trp Gly Ala Asp Ser Lys Gly Asn Pro Ser Thr Asp Thr Gln Val Val
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                                             220
Leu His Gly Gly Gly Leu Leu Pro Leu Gly Gly Ile Glu Glu Thr Gly
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                                         235
Ser Tyr Lys Gly Thr Gly Leu Ser Met Met Gly Glu Leu Phe Cys Gly
                245
                                     250
Ile Leu Ala Gly Ser Ser Phe Gly Lys Asn Val Arg Leu Trp Gly Gln
                                 265
Ser His Lys Ala Ala Asp Asn Gly Gln Cys Phe Val Ala Ile Asp Gln
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Glu Cys Phe Ala Pro Gly Phe Ala Pro Arg Leu Gln Gln Phe Leu Asp
                        295
Glu Thr Arg Asn Leu Lys Pro Ile Ser Glu Glu Lys Pro Val Leu Val
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                                         315
Pro Gly Asp Pro Glu Arg Met Asn Thr Glu Tyr Ser Gln Lys Ala Gly
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Thr Lys Cys Asp Val Gln Met Phe Ser Tyr Lys Arg Leu Lys
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tatgtggatg acgtcaaaaa cggagttaaa ggaaatggag ttccaaaagt gttaaaacaa
                                                                        240
aaaggaggca ctgcttgggt tgatggagaa aatcttctgg gtgcagttgt tggaaacttc
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tgtaccgact tggctattaa attggctaaa qaatttggcg ttgcttgggt ggtaacaaaa
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ggacttggta caaaccctct ttcttgttgt gtcaactcgg aaaagacagg agacagtttt
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ttgttagaca tggctacgac aactgttgct cttggaaagg tagagctggc agattgtcgc
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ggtaaaacac aaattccctc cacatggggt gccgattcta aaggcaatcc atcgactgat
                                                                        660
acacaagttg ttttacacgg tggcggactt ttgcctttag gcggtataga agagacggga
                                                                        720
tettacaaag gaacgggtet tteaatgatg ggtgaattgt tttgtggaat tttggcaggg
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caatttttgg atgaaacacg gaatttgaaa ccgatttctg aagaaaagcc tgttctagtg
                                                                        960
cctggagatc ctgaaagaat gaatacagaa tatagccaaa aggctggagg tttggtatac
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1098

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ctcttattag atgctgatct tgttgggcat tacagtcatg gtctaaatcg gcttcatatt
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aaaggaggca ctgcttgggt ggatggagaa aatcttttgg gtgcagttgt tggcaacttc
                                                                        300
tqtaccqatt tqqctattaa attgqctaaa qaatttqqtq ttqcttqqqt qqtaacaaaa
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aattctaatc attatggagc tngtcaacat tatactaaga aaattgcgaa tgcaggaatg
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gtgggaatgt catttacaaa tacttcacct ctcatgttcc cctgccgttc ttctgagatc
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                                                                        660
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                                                                        780
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                                                                        840
caatgttttg ttgctattga tcaagaatgt tttgccccag gatttgctcc tcgtttacaa
                                                                        900
                                                                        960
caatttttqq atqaaacacq gaatttqaaa ccgatttctq aagaaaagcc tgttctagtq
cctggagatc ctgaaagaat gaatacagaa tatagccaaa aggctggagg tttggtatac
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Cys Ser Asp Tyr Arg Gly His Tyr Ser His Gly Ile Asn Arg Leu His
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Ile Tyr Val His Asp Leu Met Met Lys Ser Thr Ala Val Thr Gly Thr
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Pro Gln Val Leu Lys Ser Lys Gly Ser Thr Ala Trp Val Asp Gly Asn
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Asn Leu Leu Gly Pro Val Val Gly Asn Phe Cys Met Gln Leu Ala Val
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Glu Lys Ala Lys Glu Phe Gly Ile Gly Trp Val Val Cys Arg Asn Ser
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Asn His Phe Gly Ile Ala Gly Trp Tyr Ala Asp Phe Ala Cys Arg Asn
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Gly Leu Val Gly Met Ala Phe Thr Asn Thr Ser Pro Cys Val Phe Pro
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 Asn Pro Lys Glu Val Leu Asp Gly Gly Gly Leu Gln Pro Leu Gly Gly
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 Ser Glu Ile Thr Gly Gly Tyr Lys Gly Thr Gly Leu Cys Met Met Val
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                                 265
 Arg Gln Trp Gln Thr Thr Ser Lys Thr Ala Asp Leu Gly Gln Cys Phe
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 Val Ala Ile Asp Pro Glu Cys Phe Ala Pro Gly Phe Ser Asn Arg Leu
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Arg Pro Pro Gln Val Pro Gly Asp Pro Glu Arg Ala His Met Asn Met
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Val Ala Lys Asp Glu Met Lys Arg Phe Met Val Glu Cys Met Thr Lys
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Glu Gly Asp Ile Arg Gly His Tyr Ser His Gly Leu Asn Arg Leu Asp
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Asp Phe Met Gln Thr Met Arg Ala Leu Pro Thr Ser Ser Pro Ser Phe
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Lys Val Glu Val Ala Gly Asp Met Glu Arg Arg His Glu Ala Leu Val
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